

WHAT IS CLAIMED AS NEW AND DESIRED TO BE SECURED BY LETTERS
PATENT OF THE UNITED STATES IS:

1. A peptide which is a fragment of a gastric cancer
antigen protein present in a human gastric cancer cell,
5 said fragment being bound to an HLA molecule and capable of
inducing a cytotoxic T cell that targets said gastric
cancer cell.

2. The peptide of Claim 1, wherein the HLA molecule
is HLA-A31.

10 3. The peptide of Claim 1, wherein said peptide has
an amino-acid sequence represented by SEQ ID NO: 1 of the
Sequence Listing.

4. The peptide of Claim 1, which has an amino-acid
sequence obtained by modifying the amino-acid sequence
15 represented by SEQ ID NO: 1 of the Sequence Listing in
order that said peptide can induce more efficiently the
cytotoxic T cell that targets the gastric cancer cell.

5. The peptide of claim 4 which has an amino-acid
sequence represented by SEQ ID NO: 2 of the Sequence
20 Listing.

6. A composition for preventing or treating human
gastric cancer, said composition containing a peptide which
is a fragment of a gastric cancer antigen protein present
in a human gastric cancer cell, said fragment being bound
25 to an HLA molecule and capable of inducing a cytotoxic T
cell that targets the gastric cancer cell.

7. The composition of Claim 6, wherein the HLA molecule is HLA-A31.

8. The composition of Claim 6, wherein said peptide has an amino-acid sequence represented by SEQ ID NO: 1 of the Sequence Listing.

9. The composition of Claim 6, wherein said peptide has an amino-acid sequence represented by SEQ ID NO: 2 of the Sequence Listing.

10. A DNA encoding a peptide which is a fragment of a gastric cancer antigen protein present in a human gastric cancer cell, said fragment being bound to an HLA molecule and capable of inducing a cytotoxic T cell that targets said gastric cancer cell.

11. The DNA of Claim 10, wherein the HLA molecule is HLA-A31.

12. The DNA of Claim 10, wherein said peptide has an amino-acid sequence represented by SEQ ID NO: 1 of the Sequence Listing.

13. The DNA of claim 10, wherein said peptide has an amino-acid sequence represented by SEQ ID NO: 2 of the Sequence Listing.

14. A vaccine for preventing or treating human gastric cancer, said vaccine containing a recombinant virus or a recombinant bacterium having a DNA encoding a peptide which is a fragment of a gastric cancer antigen protein present in a human gastric cancer cell, said fragment being

bound to an HLA molecule and capable of inducing a cytotoxic T cell that targets said gastric cancer cell.

15. The vaccine of Claim 14, wherein the HLA molecule is HLA-A31.

5 16. The vaccine of Claim 14, wherein said peptide has an amino-acid sequence represented by SEQ ID NO: 1 of the Sequence Listing.

10 17. The vaccine of claim 14, wherein said peptide has an amino-acid sequence represented by SEQ ID NO: 2 of the Sequence Listing.

15 18. A method for preventing or treating gastric cancer comprising administering to a patient in need thereof an effective amount of a peptide which is a fragment of a gastric cancer antigen protein present in a human gastric cancer cell, said fragment being bound to an HLA molecule and capable of inducing a cytotoxic T cell that targets said gastric cancer cell.

20 19. A method for preventing or treating gastric cancer comprising administering to a patient in need thereof an effective amount of CTL which have been activated with a peptide which is a fragment of a gastric cancer antigen protein present in a human gastric cancer cell, said fragment being bound to an HLA molecule and capable of inducing a cytotoxic T cell that targets said gastric cancer cell.

25 20. A method for preventing or treating gastric cancer, comprising administering to a patient in need

thereof an effective amount of a vaccine containing a recombinant virus or a recombinant bacterium having a DNA encoding a peptide which is a fragment of a gastric cancer antigen protein present in a human gastric cancer cell,

- 5 said fragment being bound to an HLA molecule and capable of inducing a cytotoxic T cell that targets said gastric cancer cell.

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